Near Real Time Meteorological and Oceanographic Observations Metadata (200704)

Identification_Information:
Citation:
Citation_Information:
Originator: James C. Hendee
Publication_Date: 2005
Title: ICON - Salt River Bay St. Croix Real Time Current Hourly and 72 Hours Meteorological and Oceanographic Observations (SRVI1-Salt River, St Croix)
Online_Linkage: http://www.coral.noaa.gov/index.shtml
Description:
Abstract: Real Time daily hour and past 72 hour meteorological and oceanographic observations at Slat River Bay, St Croix. The Atlantic Oceanographic and Meteorological Laboratory (AOML) of OAR is conducting research on the influence of meteorological and oceanographic factors upon coral bleaching, and other biogeochemical processes occurring on coral reefs. Instrument arrays to measure the various environmental influences are being deployed at key coral reef areas to gain long-term temporally intensive data coverage, to provide near real-time information products, and to surface-truth NOAA satellite sea surface temperature (SST) products used for coral bleaching predictions ("HotSpot" products). OAR has developed expert system software plus the instrument array (together called an Integrated Coral Observing Network, ICON) to screen data in near real-time to test for appropriate data ranges for each of the instruments, and to issue "alerts" as to conditions thought to be conducive to coral bleaching, and other modeled events. At each ICON station, local collaborators also provide feedback on the presence and progress of coral bleaching and thus validate coral bleaching predictions made by satellite HotSpots and ICON information products.
Purpose: To screen data in near real-time to test for appropriate data ranges for each of the measured parameters, and to issue "alerts" as to conditions thought to be conducive to coral bleaching, and other modeled events. The impetus for such a framework was the perceived marked regional decline in coral reefs and the critical need to provide data and options for resource management.
Supplemental_Information: Observations at this mooring are: salinity, wind speed, gusts and direction, barometric pressure, air and water temperatures, instrument depth, photosynthetically active radiation, and ultraviolet radiation. A -9 indicates that the parameter is unavailable.
Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 2005
Ending_Date: present
Currentness_Reference: ground condition
Status:
Progress: In Work
Maintenance_and_Update_Frequency: Unknown
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -64.761
East_Bounding_Coordinate: -64.761
North_Bounding_Coordinate: 17.784

South_Bounding_Coordinate: 17.784
Keywords:
Theme:
Theme_Keyword_Thesaurus: CoRIS Discovery Thesaurus
Theme_Keyword: Numeric Data Sets > Oceanography
Theme:
Theme_Keyword_Thesaurus: CoRIS Theme Thesaurus
Theme_Keyword: Physical oceanographic data > Salinity
Theme_Keyword: EARTH SCIENCE > Oceans > Salinity/Density > Salinity
Theme_Keyword: Physical oceanographic data > Temperature > Sea Surface Temperature (SST)
Theme_Keyword: EARTH SCIENCE > Oceans > Ocean Temperature > Sea Surface Temperature
Theme_Keyword: Meteorological data > Barometric pressure
Theme_Keyword: Meteorological data > Temperature - air
Theme_Keyword: EARTH SCIENCE > Atmosphere > Atmospheric Temperature > Air Temperature
Theme_Keyword: Meteorological data > Wind
Theme_Keyword: EARTH SCIENCE > Atmosphere > Atmospheric Winds > Surface Winds
Theme_Keyword: Physical oceanographic data > Light measurements > Photosynthetically Active Radiation (PAR)
Theme_Keyword: EARTH SCIENCE > Oceans > Ocean Optics > Photosynthetically Active Radiation
Theme_Keyword: Physical oceanographic data > Light measurements > Ultraviolet radiation
Theme_Keyword: EARTH SCIENCE > Oceans > Ocean Optics > Ultraviolet Radiation
Theme:
Theme_Keyword_Thesaurus: None
Theme_Keyword: Coral Reef
Theme_Keyword: Remote Sensing
Theme_Keyword: Physical Oceanography
Theme_Keyword: Coral
Theme_Keyword: Reef
Theme_Keyword: ICON
Theme_Keyword: C-MAN
Theme:
Theme_Keyword_Thesaurus: ISO 19115:2003 MD_TopicCategoryCode
Theme_Keyword: oceans
Theme_Keyword: 014
Place:
Place_Keyword_Thesaurus: CoRIS Place Thesaurus
Place_Keyword: OCEAN BASIN > Atlantic Ocean > Caribbean Sea > Virgin Islands > St. Croix > Salt River Bay (17N064W0022)
Place_Keyword: COUNTRY/TERRITORY > United States of America > US Virgin Islands > St. Croix > Salt River Bay (17N064W0022)
Place:
Place_Keyword_Thesaurus: None
Place_Keyword: Salt River Bay
Place_Keyword: US Virgin Islands
Place_Keyword: St. Croix
Access_Constraints: None
Use_Constraints: none
Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Louis Florit

Contact_Organization: Ocean Chemistry Division, Atlantic Oceanographic and Meteorological Laboratory,
National Oceanic and Atmospheric Administration
Contact_Address:
Address_Type: mailing and physical address
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Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Format_Name: ASCII
Digital_Transfer_Option:
Online_Option:
Computer_Contact_Information:
Network_Address:
Network_Resource_Name: http://www.coral.noaa.gov/crw/real_data.shtml
Fees: none
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Metadata_Date: 20070326
Metadata_Review_Date: 200511
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Contact_Information:
Contact_Person_Primary:
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Metadata_Standard_Name: FGDC Content Standard for Digital Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998